

I CLAIM:

1. A nail driving gun comprising:

a gun housing having a front open end that defines
a nail-discharging passage extending in a
5 longitudinal direction;

a solenoid mounted in said gun housing and adapted
to be actuated upon receiving a current from a power
source, said solenoid including a coil member and a
magnetic core which are aligned in said longitudinal
10 direction and which are magnetically attracted to
each other in such a manner that said magnetic core
is movable in a forward direction along said
longitudinal direction and said coil member is
movable in a rearward direction opposite to said
15 frontward direction when said solenoid is actuated,
said magnetic core being disposed rearwardly of said
coil member and having a front end;

a striking pin extending from said front end of
said magnetic core through said coil member and into
20 said nail discharging passage so as to be movable
together with said magnetic core and so as to be adapted
to expel a nail from said nail discharging passage;

an urging member mounted in said gun housing for
restoring said magnetic core to a normal position
25 after expelling the nail; and

a shock-absorbing member mounted in said gun
housing and disposed rearwardly of and resiliently

abutting against said coil member so as to provide a shock-absorbing effect on said nail driving gun when said coil member is magnetically drawn by said magnetic core to move in said rearward direction.

- 5 2. The nail driving gun of Claim 1, wherein said gun housing defines an inner space therein, and is formed with front and rear guiding seats that are disposed in said inner space between said urging member and said front open end of said gun housing and that
10 respectively define a front guiding channel adjacent to said front open end, and a rear guiding channel adjacent to said urging member, said front and rear guiding channels and said nail discharging passage being aligned in said longitudinal direction, said
15 coil member defining a magnetic core passage for extension of said magnetic core therein, and having an intermediate section, a front end section reducing from said intermediate section and extending into said front guiding channel, and a rear end section
20 opposite to said front end section, reducing from said intermediate section, and extending into said rear guiding channel, said shock-absorbing member being in the form of a coil spring that is disposed between and that abuts against said rear guiding seat and said
25 intermediate section of said coil member.